

zehnder Z75 - 75mm deep
low surface temperature radiators

zehnder

Introduction

Zehnder Z75 Low Surface Temperature Radiators:

Recognising the need for minimal intrusion into the available space, especially where wheelchair access is a requirement, the Z75 LST offers the slimmest, true low surface temperature radiator available.

Innovative engineering has created a compact radiator with high specific heat outputs, designed for quick and cost effective installation and maintenance.

Key Features:

- only 75mm from wall to front face of radiator
- high specific outputs
- quick fix bracket systems
- individual case lengths up to 2911mm
- can be joined together to create continuous runs
- satin anodised aluminium hinged grilles for easy maintenance
- pencil-proof grilles
- robust zintec-steel front panel
- 2 basic styles - top grilles only or top and bottom grilles
- integrated valve options
- cut-outs for valves, pipeworks and skirtings
- colour options

Applications:

At only 75mm deep, the Z75 lends itself to any restricted spaces where LST is a requirement: The attributes of this radiator also make it suitable for any LST application where performance and aesthetics are important.

Typical installations include:

- hospitals and all associated wards
- nursing homes
- nurseries
- schools
- all public buildings
- special care units
- disabled toilets

Product Specification

General:

LST Casing:

Constructed from a front panel of 75mm individual 1.2mm thick zinc coated steel panels, spot welded together on double profiled return bends to create a robust panel. End casings formed from a 1.2mm zinc coated steel. Removable and self-hinging aluminium grilles secured by Allen key cap head screws.

Heat Emitter:

15mm copper water bearing tubes with aluminium convector plates nominally spaced at 7.5mm intervals.

All production to ISO 9002:1994

Operating Parameters: (BS EN442-1: 1996)

Standard Working Pressure: 5.0 bar

Standard Test Pressure: 7.0 bar

Outputs:

Tests for heat outputs have been performed by BSRIA in accordance with EN442. In order to give as accurate a representation as possible, the cases were fitted over the heat emitter for the tests, and therefore the outputs stated do not require any adjustments. Tests were also performed to ensure that no part of the case reached temperatures in excess of 43°C. Outputs are stated at $\Delta T=50K$ as required by EN442, and at $\Delta T=56K$ & $\Delta T=60K$ for convenience.

Outputs at different ΔT values may be calculated using the correction factor table from the base outputs stated at $\Delta T=50K$.

Finishes:

Heat emitters are natural finish copper and aluminium.

LST cases are factory finished with an anti-bacterial coating to RAL 9010 semi-gloss.

LST grilles finished with an anti-bacterial clear coat in satin anodised aluminium.

Other finishes available upon request.



Brackets:

Supplied with 'single fix' fully adjustable brackets which mount both the emitter and the case. Very little site assembly is required.

Special Options:

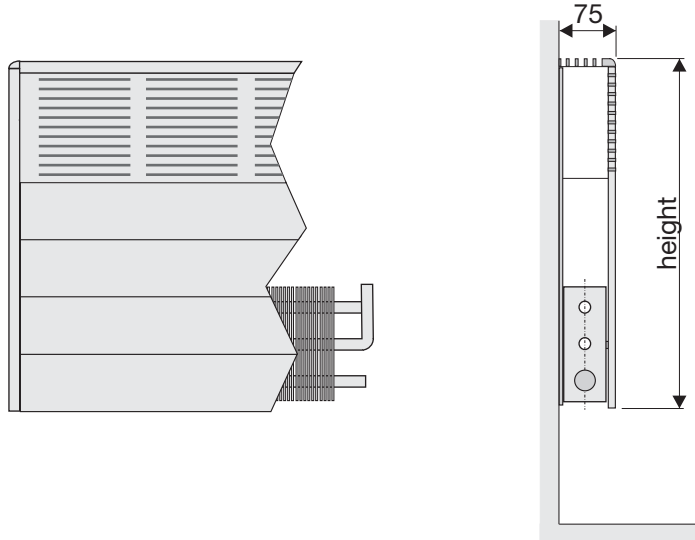
- powder coat finish to RAL, BS or NCS colours (extra cost)
- cut-outs for valves, pipework and skirtings (no cost option)
- remote adjuster TRV (extra cost)
- integrated valve assemblies (extra cost)

Please consult the Zehnder Technical Office for any other special requirements.

Manufactured in the UK.

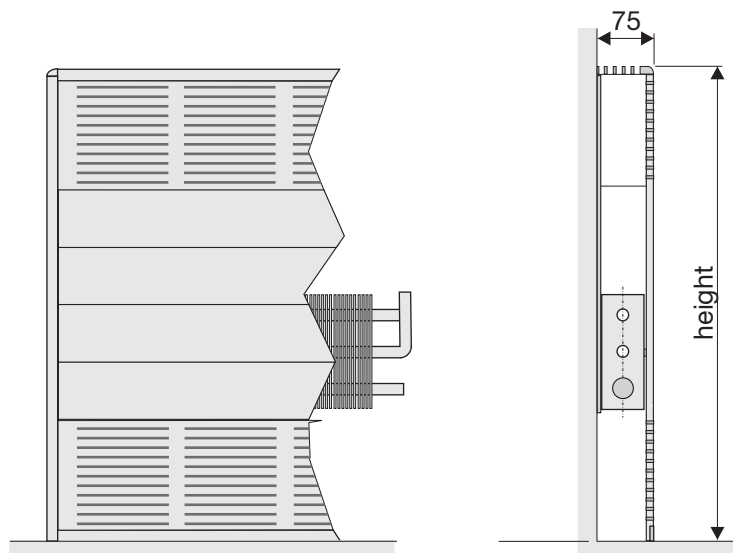
Model Overview

Style T



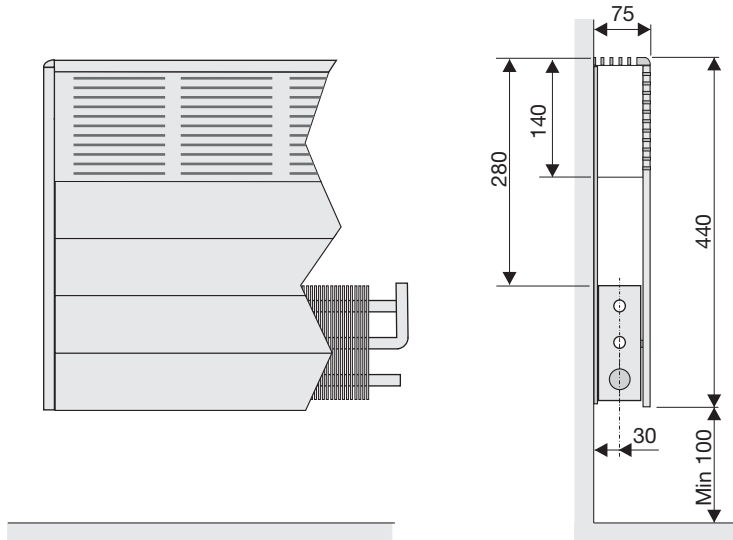
Grilles: top (horizontal & vertical)
Depth: 75mm
Height: 440, 590, 740 & 890mm
Length: 661 - 2911mm

Style F



Grilles: top (horizontal & vertical) & bottom vertical
Depth: 75mm
Height: 580, 730, 880 & 1030mm
Length: 661 - 2911mm

Z75 440-T



Model Code (example)

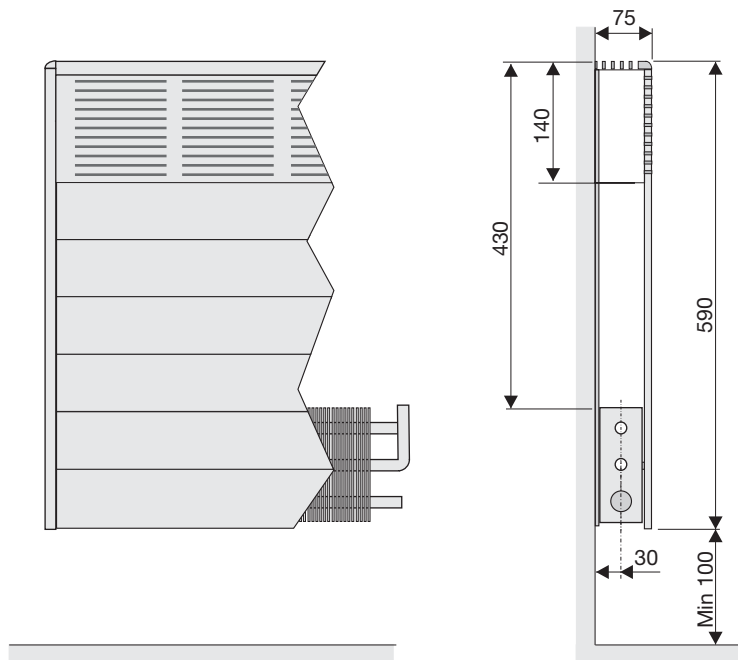
Z75-440-T-661

- Overall length
- Style T
- Case height
- Zehnder
- 75mm LST

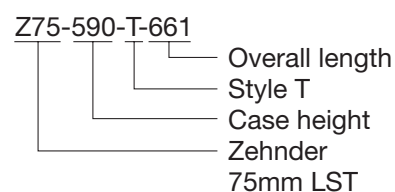
Technical Data

| Case Mass kg | Emitter Mass (dry) kg | Volume V litres | Emitter Length mm | Case Length mm | Model | Output BS EN442 $\Delta T=50K$ Watts | Output $\Delta T=56K$ Watts | Output T=60K Watts |
|-----------------|-----------------------------|-----------------------|-------------------------|----------------------|-----------------------|--|-----------------------------------|--------------------------|
| 3.71 | 0.97 | 0.20 | 490 | 661 | Z75-440-T-661 | 232 | 271 | 297 |
| 4.29 | 1.19 | 0.24 | 600 | 763 | Z75-440-T-763 | 295 | 344 | 378 |
| 4.86 | 1.39 | 0.28 | 700 | 865 | Z75-440-T-865 | 355 | 415 | 456 |
| 5.44 | 1.60 | 0.32 | 805 | 968 | Z75-440-T-968 | 419 | 489 | 537 |
| 6.01 | 1.79 | 0.36 | 900 | 1070 | Z75-440-T-1070 | 479 | 559 | 614 |
| 6.58 | 2.01 | 0.40 | 1010 | 1172 | Z75-440-T-1172 | 542 | 633 | 695 |
| 7.16 | 2.21 | 0.44 | 1110 | 1274 | Z75-440-T-1274 | 599 | 700 | 768 |
| 7.74 | 2.42 | 0.48 | 1215 | 1377 | Z75-440-T-1377 | 663 | 773 | 850 |
| 8.31 | 2.60 | 0.52 | 1310 | 1479 | Z75-440-T-1479 | 723 | 844 | 927 |
| 8.88 | 2.80 | 0.56 | 1410 | 1581 | Z75-440-T-1581 | 783 | 914 | 1004 |
| 9.46 | 3.00 | 0.60 | 1510 | 1684 | Z75-440-T-1684 | 846 | 988 | 1085 |
| 10.03 | 3.21 | 0.64 | 1615 | 1786 | Z75-440-T-1786 | 904 | 1055 | 1158 |
| 10.61 | 3.41 | 0.68 | 1715 | 1888 | Z75-440-T-1888 | 964 | 1125 | 1236 |
| 11.18 | 3.61 | 0.72 | 1815 | 1990 | Z75-440-T-1990 | 1027 | 1199 | 1317 |
| 11.75 | 3.82 | 0.76 | 1920 | 2092 | Z75-440-T-2092 | 1090 | 1272 | 1398 |
| 12.33 | 4.03 | 0.81 | 2025 | 2195 | Z75-440-T-2195 | 1154 | 1346 | 1479 |
| 12.90 | 4.23 | 0.85 | 2125 | 2297 | Z75-440-T-2297 | 1214 | 1417 | 1556 |
| 13.48 | 4.41 | 0.88 | 2220 | 2400 | Z75-440-T-2400 | 1271 | 1483 | 1630 |
| 14.05 | 4.62 | 0.93 | 2325 | 2502 | Z75-440-T-2502 | 1334 | 1557 | 1711 |
| 15.20 | 5.03 | 1.01 | 2530 | 2706 | Z75-440-T-2706 | 1458 | 1701 | 1869 |
| 15.78 | 5.23 | 1.05 | 2630 | 2809 | Z75-440-T-2809 | 1521 | 1775 | 1950 |
| 16.35 | 5.45 | 1.09 | 2740 | 2911 | Z75-440-T-2911 | 1579 | 1842 | 2023 |

Z75 590-T



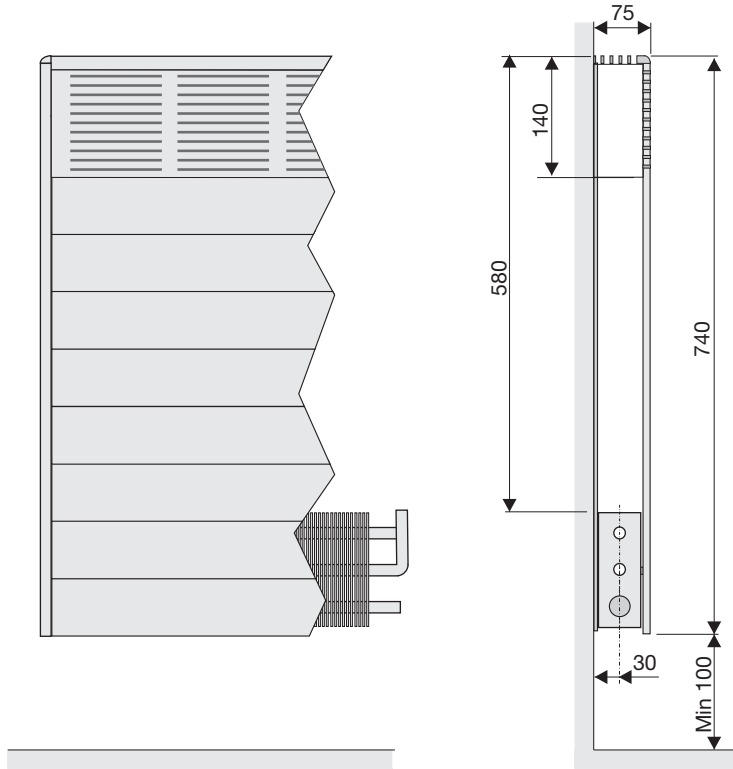
Model Code (example)



Technical Data

| Case Mass kg | Emitter Mass (dry) kg | Volume V litres | Emitter Length mm | Case Length mm | Model | Output BS EN442 $\Delta T=50K$ Watts | Output $\Delta T=56K$ Watts | Output $T=60K$ Watts |
|--------------|-----------------------|-----------------|-------------------|----------------|-----------------------|--------------------------------------|-----------------------------|----------------------|
| 4.90 | 0.97 | 0.20 | 490 | 661 | Z75-590-T-661 | 249 | 290 | 318 |
| 5.66 | 1.19 | 0.24 | 600 | 763 | Z75-590-T-763 | 317 | 369 | 405 |
| 6.42 | 1.39 | 0.28 | 700 | 865 | Z75-590-T-865 | 382 | 445 | 488 |
| 7.18 | 1.60 | 0.32 | 805 | 968 | Z75-590-T-968 | 450 | 524 | 574 |
| 7.94 | 1.79 | 0.36 | 900 | 1070 | Z75-590-T-1070 | 515 | 599 | 657 |
| 8.69 | 2.01 | 0.40 | 1010 | 1172 | Z75-590-T-1172 | 583 | 678 | 744 |
| 9.45 | 2.21 | 0.44 | 1110 | 1274 | Z75-590-T-1274 | 644 | 750 | 822 |
| 10.21 | 2.42 | 0.48 | 1215 | 1377 | Z75-590-T-1377 | 712 | 829 | 909 |
| 10.97 | 2.60 | 0.52 | 1310 | 1479 | Z75-590-T-1479 | 777 | 904 | 992 |
| 11.73 | 2.80 | 0.56 | 1410 | 1581 | Z75-590-T-1581 | 842 | 980 | 1075 |
| 12.49 | 3.00 | 0.60 | 1510 | 1684 | Z75-590-T-1684 | 909 | 1059 | 1161 |
| 13.25 | 3.21 | 0.64 | 1615 | 1786 | Z75-590-T-1786 | 971 | 1130 | 1240 |
| 14.00 | 3.41 | 0.68 | 1715 | 1888 | Z75-590-T-1888 | 1036 | 1206 | 1322 |
| 14.76 | 3.61 | 0.72 | 1815 | 1990 | Z75-590-T-1990 | 1104 | 1285 | 1409 |
| 15.52 | 3.82 | 0.76 | 1920 | 2092 | Z75-590-T-2092 | 1172 | 1364 | 1496 |
| 16.28 | 4.03 | 0.81 | 2025 | 2195 | Z75-590-T-2195 | 1240 | 1443 | 1583 |
| 17.04 | 4.23 | 0.85 | 2125 | 2297 | Z75-590-T-2297 | 1304 | 1518 | 1665 |
| 17.80 | 4.41 | 0.88 | 2220 | 2400 | Z75-590-T-2400 | 1366 | 1590 | 1744 |
| 18.56 | 4.62 | 0.93 | 2325 | 2502 | Z75-590-T-2502 | 1434 | 1669 | 1831 |
| 20.07 | 5.03 | 1.01 | 2530 | 2706 | Z75-590-T-2706 | 1566 | 1824 | 2000 |
| 20.83 | 5.23 | 1.05 | 2630 | 2809 | Z75-590-T-2809 | 1634 | 1903 | 2087 |
| 21.59 | 5.45 | 1.09 | 2740 | 2911 | Z75-590-T-2911 | 1696 | 1974 | 2166 |

Z75 740-T



Model Code (example)

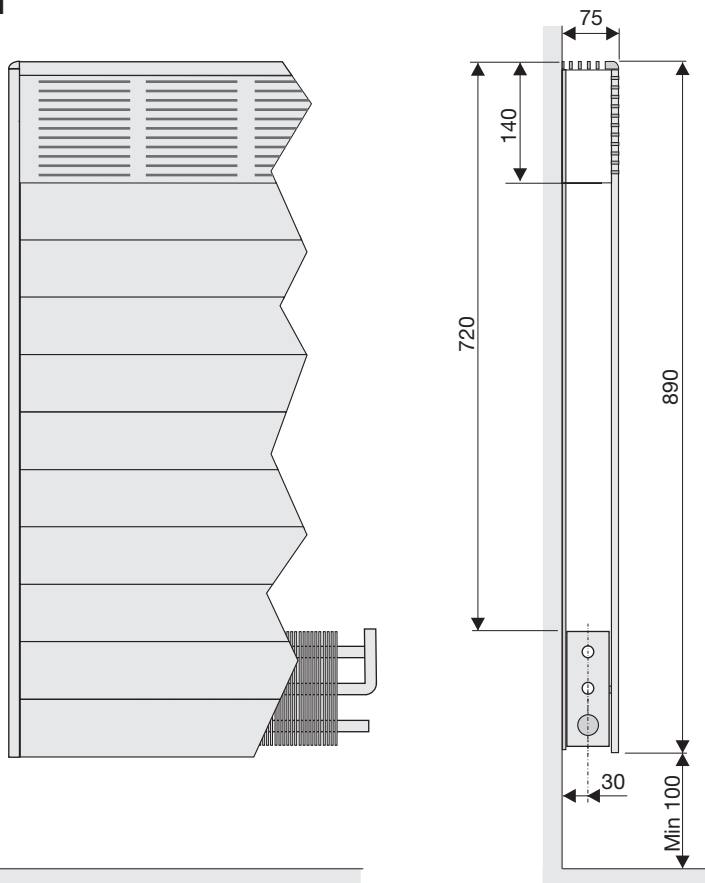
Z75-740-T-661

- Overall length
- Style T
- Case height
- Zehnder
- 75mm LST

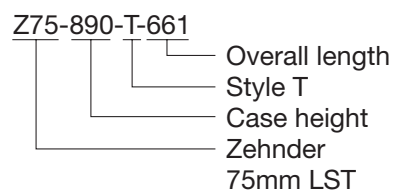
Technical Data

| Case Mass kg | Emitter Mass (dry) kg | Volume V litres | Emitter Length mm | Case Length mm | Model | Output BS EN442 $\Delta T=50K$ Watts | Output $\Delta T=56K$ Watts | Output T=60K Watts |
|--------------|-----------------------|-----------------|-------------------|----------------|-----------------------|--------------------------------------|-----------------------------|--------------------|
| 6.09 | 0.97 | 0.20 | 490 | 661 | Z75-740-T-661 | 266 | 309 | 339 |
| 7.03 | 1.19 | 0.24 | 600 | 763 | Z75-740-T-763 | 339 | 394 | 431 |
| 7.97 | 1.39 | 0.28 | 700 | 865 | Z75-740-T-865 | 408 | 474 | 519 |
| 8.92 | 1.60 | 0.32 | 805 | 968 | Z75-740-T-968 | 481 | 559 | 612 |
| 9.86 | 1.79 | 0.36 | 900 | 1070 | Z75-740-T-1070 | 550 | 639 | 700 |
| 10.80 | 2.01 | 0.40 | 1010 | 1172 | Z75-740-T-1172 | 623 | 723 | 792 |
| 11.74 | 2.21 | 0.44 | 1110 | 1274 | Z75-740-T-1274 | 689 | 800 | 876 |
| 12.69 | 2.42 | 0.48 | 1215 | 1377 | Z75-740-T-1377 | 761 | 884 | 968 |
| 13.63 | 2.60 | 0.52 | 1310 | 1479 | Z75-740-T-1479 | 831 | 965 | 1056 |
| 14.57 | 2.80 | 0.56 | 1410 | 1581 | Z75-740-T-1581 | 900 | 1045 | 1144 |
| 15.52 | 3.00 | 0.60 | 1510 | 1684 | Z75-740-T-1684 | 972 | 1129 | 1237 |
| 16.46 | 3.21 | 0.64 | 1615 | 1786 | Z75-740-T-1786 | 1038 | 1206 | 1321 |
| 17.40 | 3.41 | 0.68 | 1715 | 1888 | Z75-740-T-1888 | 1107 | 1286 | 1409 |
| 18.34 | 3.61 | 0.72 | 1815 | 1990 | Z75-740-T-1990 | 1180 | 1370 | 1501 |
| 19.28 | 3.82 | 0.76 | 1920 | 2092 | Z75-740-T-2092 | 1253 | 1455 | 1593 |
| 20.23 | 4.03 | 0.81 | 2025 | 2195 | Z75-740-T-2195 | 1325 | 1539 | 1686 |
| 21.17 | 4.23 | 0.85 | 2125 | 2297 | Z75-740-T-2297 | 1395 | 1620 | 1774 |
| 22.12 | 4.41 | 0.88 | 2220 | 2400 | Z75-740-T-2400 | 1460 | 1696 | 1858 |
| 23.06 | 4.62 | 0.93 | 2325 | 2502 | Z75-740-T-2502 | 1533 | 1780 | 1950 |
| 24.94 | 5.03 | 1.01 | 2530 | 2706 | Z75-740-T-2706 | 1675 | 1945 | 2131 |
| 25.89 | 5.23 | 1.05 | 2630 | 2809 | Z75-740-T-2809 | 1748 | 2030 | 2223 |
| 26.83 | 5.45 | 1.09 | 2740 | 2911 | Z75-740-T-2911 | 1813 | 2106 | 2307 |

Z75 890-T



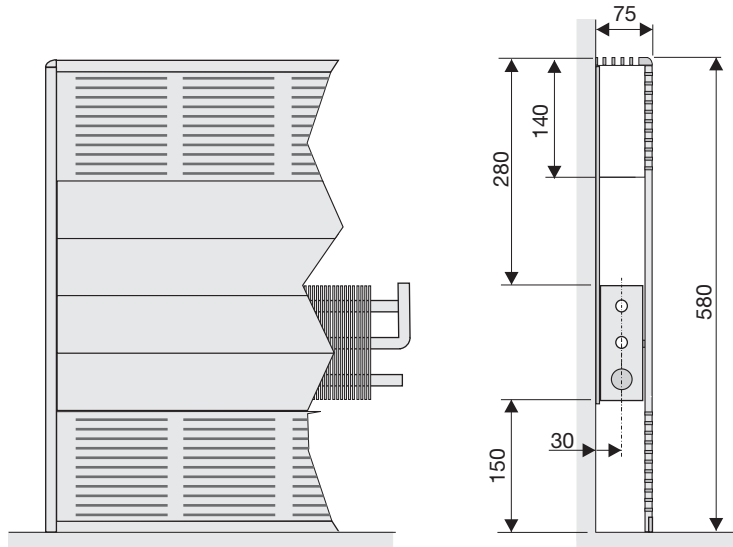
Model Code (example)



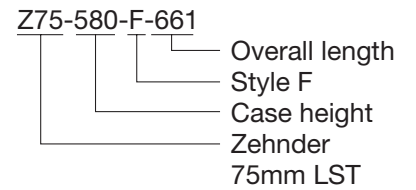
Technical Data

| Case Mass kg | Emitter Mass (dry) kg | Volume V litres | Emitter Length mm | Case Length mm | Model | Output BS EN442 $\Delta T=50K$ Watts | Output $\Delta T=56K$ Watts | Output $T=60K$ Watts |
|--------------|-----------------------|-----------------|-------------------|----------------|-----------------------|--------------------------------------|-----------------------------|----------------------|
| 7.28 | 0.97 | 0.20 | 490 | 661 | Z75-890-T-661 | 284 | 329 | 360 |
| 8.40 | 1.19 | 0.24 | 600 | 763 | Z75-890-T-763 | 361 | 418 | 458 |
| 9.53 | 1.39 | 0.28 | 700 | 865 | Z75-890-T-865 | 435 | 504 | 551 |
| 10.66 | 1.60 | 0.32 | 805 | 968 | Z75-890-T-968 | 512 | 593 | 649 |
| 11.79 | 1.79 | 0.36 | 900 | 1070 | Z75-890-T-1070 | 586 | 679 | 742 |
| 12.91 | 2.01 | 0.40 | 1010 | 1172 | Z75-890-T-1172 | 663 | 768 | 840 |
| 14.03 | 2.21 | 0.44 | 1110 | 1274 | Z75-890-T-1274 | 733 | 850 | 929 |
| 15.17 | 2.42 | 0.48 | 1215 | 1377 | Z75-890-T-1377 | 811 | 939 | 1027 |
| 16.29 | 2.60 | 0.52 | 1310 | 1479 | Z75-890-T-1479 | 884 | 1025 | 1121 |
| 17.42 | 2.80 | 0.56 | 1410 | 1581 | Z75-890-T-1581 | 958 | 1110 | 1214 |
| 18.55 | 3.00 | 0.60 | 1510 | 1684 | Z75-890-T-1684 | 1035 | 1200 | 1312 |
| 19.67 | 3.21 | 0.64 | 1615 | 1786 | Z75-890-T-1786 | 1105 | 1281 | 1401 |
| 20.80 | 3.41 | 0.68 | 1715 | 1888 | Z75-890-T-1888 | 1179 | 1366 | 1494 |
| 21.92 | 3.61 | 0.72 | 1815 | 1990 | Z75-890-T-1990 | 1257 | 1456 | 1592 |
| 23.04 | 3.82 | 0.76 | 1920 | 2092 | Z75-890-T-2092 | 1334 | 1545 | 1690 |
| 24.18 | 4.03 | 0.81 | 2025 | 2195 | Z75-890-T-2195 | 1411 | 1635 | 1788 |
| 25.30 | 4.23 | 0.85 | 2125 | 2297 | Z75-890-T-2297 | 1485 | 1720 | 1882 |
| 26.44 | 4.41 | 0.88 | 2220 | 2400 | Z75-890-T-2400 | 1555 | 1801 | 1970 |
| 27.56 | 4.62 | 0.93 | 2325 | 2502 | Z75-890-T-2502 | 1632 | 1891 | 2068 |
| 29.81 | 5.03 | 1.01 | 2530 | 2706 | Z75-890-T-2706 | 1783 | 2066 | 2260 |
| 30.94 | 5.23 | 1.05 | 2630 | 2809 | Z75-890-T-2809 | 1861 | 2156 | 2358 |
| 32.07 | 5.45 | 1.09 | 2740 | 2911 | Z75-890-T-2911 | 1931 | 2237 | 2447 |

Z75 580-F



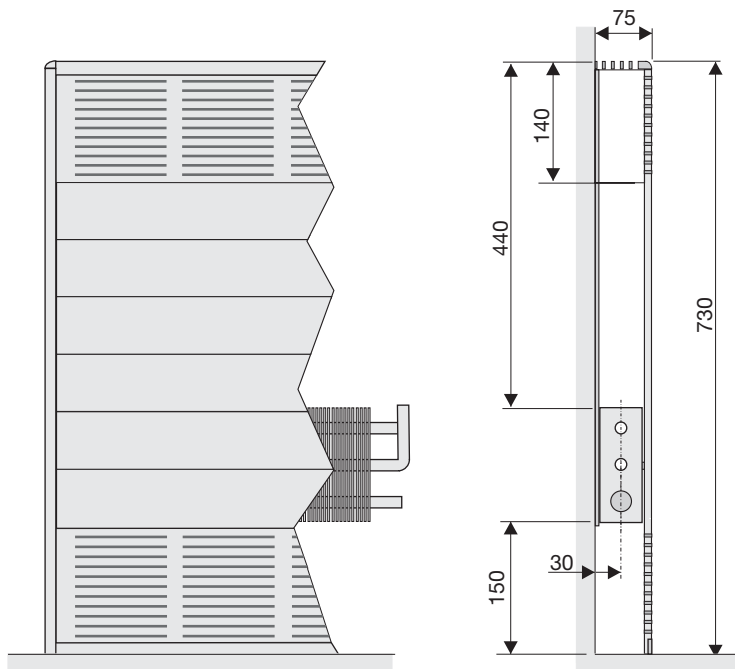
Model Code (example)



Technical Data

| Case Mass kg | Emitter Mass (dry) kg | Volume V litres | Emitter Length mm | Case Length mm | Model | Output BS EN442 $\Delta T=50K$ Watts | Output $\Delta T=56K$ Watts | Output T=60K Watts |
|--------------|-----------------------|-----------------|-------------------|----------------|-----------------------|--------------------------------------|-----------------------------|--------------------|
| 4.37 | 0.97 | 0.20 | 490 | 661 | Z75-580-F-661 | 212 | 249 | 274 |
| 5.05 | 1.19 | 0.24 | 600 | 763 | Z75-580-F-763 | 270 | 317 | 349 |
| 5.72 | 1.39 | 0.28 | 700 | 865 | Z75-580-F-865 | 325 | 382 | 420 |
| 6.41 | 1.60 | 0.32 | 805 | 968 | Z75-580-F-968 | 383 | 449 | 495 |
| 7.08 | 1.79 | 0.36 | 900 | 1070 | Z75-580-F-1070 | 438 | 514 | 566 |
| 7.76 | 2.01 | 0.40 | 1010 | 1172 | Z75-580-F-1172 | 496 | 582 | 641 |
| 8.43 | 2.21 | 0.44 | 1110 | 1274 | Z75-580-F-1274 | 549 | 643 | 709 |
| 9.11 | 2.42 | 0.48 | 1215 | 1377 | Z75-580-F-1377 | 607 | 711 | 784 |
| 9.79 | 2.60 | 0.52 | 1310 | 1479 | Z75-580-F-1479 | 662 | 776 | 855 |
| 10.46 | 2.80 | 0.56 | 1410 | 1581 | Z75-580-F-1581 | 717 | 841 | 926 |
| 11.14 | 3.00 | 0.60 | 1510 | 1684 | Z75-580-F-1684 | 775 | 908 | 1001 |
| 11.82 | 3.21 | 0.64 | 1615 | 1786 | Z75-580-F-1786 | 827 | 970 | 1069 |
| 12.49 | 3.41 | 0.68 | 1715 | 1888 | Z75-580-F-1888 | 882 | 1035 | 1140 |
| 13.17 | 3.61 | 0.72 | 1815 | 1990 | Z75-580-F-1990 | 940 | 1102 | 1215 |
| 13.84 | 3.82 | 0.76 | 1920 | 2092 | Z75-580-F-2092 | 998 | 1170 | 1290 |
| 14.53 | 4.03 | 0.81 | 2025 | 2195 | Z75-580-F-2195 | 1056 | 1238 | 1364 |
| 15.20 | 4.23 | 0.85 | 2125 | 2297 | Z75-580-F-2297 | 1111 | 1303 | 1436 |
| 15.88 | 4.41 | 0.88 | 2220 | 2400 | Z75-580-F-2400 | 1163 | 1364 | 1503 |
| 16.56 | 4.62 | 0.93 | 2325 | 2502 | Z75-580-F-2502 | 1221 | 1432 | 1578 |
| 17.91 | 5.03 | 1.01 | 2530 | 2706 | Z75-580-F-2706 | 1334 | 1565 | 1724 |
| 18.59 | 5.23 | 1.05 | 2630 | 2809 | Z75-580-F-2809 | 1392 | 1633 | 1799 |
| 19.26 | 5.45 | 1.09 | 2740 | 2911 | Z75-580-F-2911 | 1445 | 1694 | 1867 |

Z75 730-F



Model Code (example)

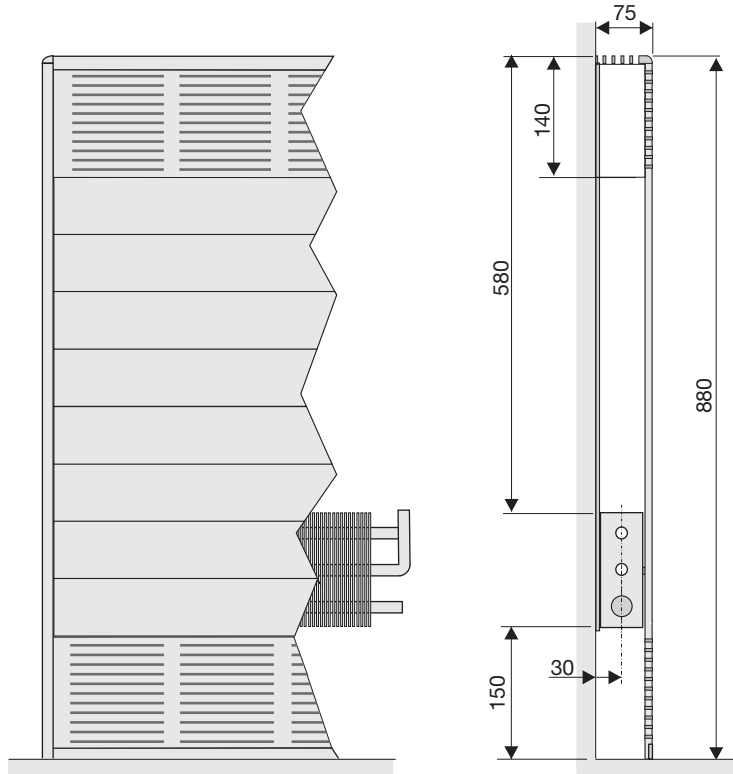
Z75-730-F-661

- Overall length
- Style F
- Case height
- Zehnder
- 75mm LST

Technical Data

| Case Mass kg | Emitter Mass (dry) kg | Volume V litres | Emitter Length mm | Case Length mm | Model | Output BS EN442 $\Delta T=50K$ Watts | Output $\Delta T=56K$ Watts | Output $T=60K$ Watts |
|--------------|-----------------------|-----------------|-------------------|----------------|-----------------------|--------------------------------------|-----------------------------|----------------------|
| 5.56 | 0.97 | 0.20 | 490 | 661 | Z75-730-F-661 | 230 | 268 | 295 |
| 6.42 | 1.19 | 0.24 | 600 | 763 | Z75-730-F-763 | 292 | 342 | 376 |
| 7.28 | 1.39 | 0.28 | 700 | 865 | Z75-730-F-865 | 352 | 411 | 452 |
| 8.15 | 1.60 | 0.32 | 805 | 968 | Z75-730-F-968 | 414 | 484 | 533 |
| 9.01 | 1.79 | 0.36 | 900 | 1070 | Z75-730-F-1070 | 474 | 554 | 609 |
| 9.86 | 2.01 | 0.40 | 1010 | 1172 | Z75-730-F-1172 | 537 | 627 | 690 |
| 10.72 | 2.21 | 0.44 | 1110 | 1274 | Z75-730-F-1274 | 593 | 694 | 763 |
| 11.59 | 2.42 | 0.48 | 1215 | 1377 | Z75-730-F-1377 | 656 | 767 | 843 |
| 12.45 | 2.60 | 0.52 | 1310 | 1479 | Z75-730-F-1479 | 716 | 837 | 920 |
| 13.31 | 2.80 | 0.56 | 1410 | 1581 | Z75-730-F-1581 | 775 | 906 | 997 |
| 14.17 | 3.00 | 0.60 | 1510 | 1684 | Z75-730-F-1684 | 838 | 979 | 1077 |
| 15.03 | 3.21 | 0.64 | 1615 | 1786 | Z75-730-F-1786 | 895 | 1046 | 1150 |
| 15.89 | 3.41 | 0.68 | 1715 | 1888 | Z75-730-F-1888 | 954 | 1115 | 1227 |
| 16.75 | 3.61 | 0.72 | 1815 | 1990 | Z75-730-F-1990 | 1017 | 1189 | 1307 |
| 17.61 | 3.82 | 0.76 | 1920 | 2092 | Z75-730-F-2092 | 1079 | 1262 | 1388 |
| 18.47 | 4.03 | 0.81 | 2025 | 2195 | Z75-730-F-2195 | 1142 | 1335 | 1468 |
| 19.33 | 4.23 | 0.85 | 2125 | 2297 | Z75-730-F-2297 | 1202 | 1405 | 1545 |
| 20.20 | 4.41 | 0.88 | 2220 | 2400 | Z75-730-F-2400 | 1258 | 1471 | 1618 |
| 21.06 | 4.62 | 0.93 | 2325 | 2502 | Z75-730-F-2502 | 1321 | 1544 | 1698 |
| 22.78 | 5.03 | 1.01 | 2530 | 2706 | Z75-730-F-2706 | 1443 | 1687 | 1855 |
| 23.64 | 5.23 | 1.05 | 2630 | 2809 | Z75-730-F-2809 | 1506 | 1760 | 1936 |
| 24.50 | 5.45 | 1.09 | 2740 | 2911 | Z75-730-F-2911 | 1562 | 1826 | 2009 |

Z75 880-F



Model Code (example)

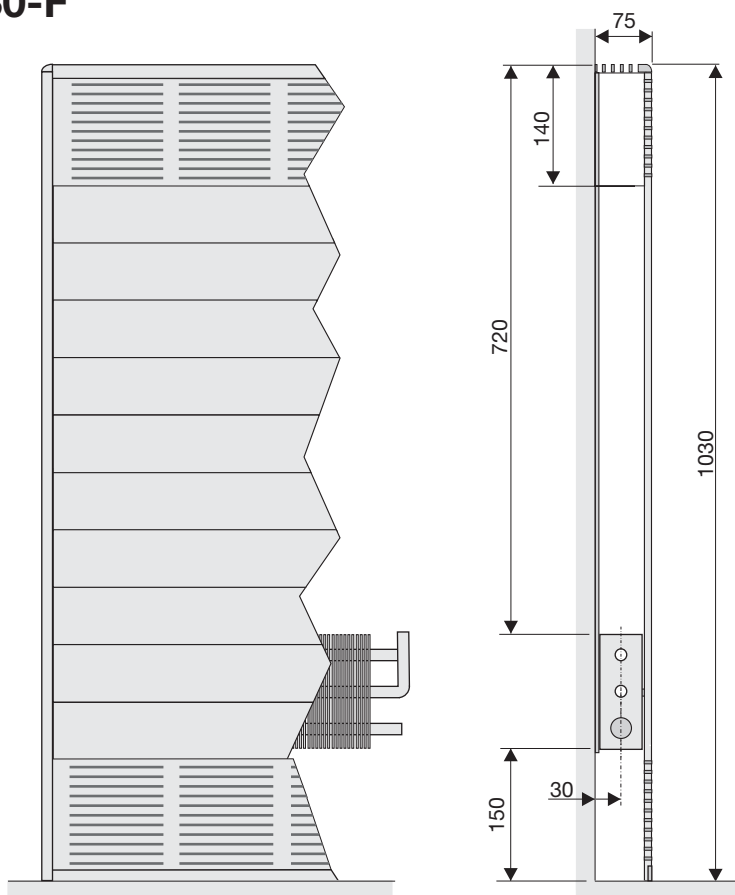
Z75-880-F-661

- Overall length
- Style F
- Case height
- Zehnder
- 75mm LST

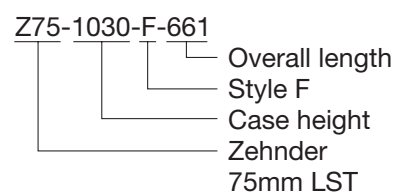
Technical Data

| Case Mass kg | Emitter Mass (dry) kg | Volume V litres | Emitter Length mm | Case Length mm | Model | Output BS EN442 $\Delta T=50K$ Watts | Output $\Delta T=56K$ Watts | Output $T=60K$ Watts |
|--------------|-----------------------|-----------------|-------------------|----------------|-----------------------|--------------------------------------|-----------------------------|----------------------|
| 6.75 | 0.97 | 0.20 | 490 | 661 | Z75-880-F-661 | 247 | 288 | 316 |
| 7.79 | 1.19 | 0.24 | 600 | 763 | Z75-880-F-763 | 314 | 366 | 402 |
| 8.84 | 1.39 | 0.28 | 700 | 865 | Z75-880-F-865 | 378 | 441 | 484 |
| 9.89 | 1.60 | 0.32 | 805 | 968 | Z75-880-F-968 | 446 | 519 | 570 |
| 10.93 | 1.79 | 0.36 | 900 | 1070 | Z75-880-F-1070 | 510 | 594 | 652 |
| 11.97 | 2.01 | 0.40 | 1010 | 1172 | Z75-880-F-1172 | 577 | 673 | 738 |
| 13.02 | 2.21 | 0.44 | 1110 | 1274 | Z75-880-F-1274 | 638 | 744 | 816 |
| 14.07 | 2.42 | 0.48 | 1215 | 1377 | Z75-880-F-1377 | 705 | 822 | 902 |
| 15.11 | 2.60 | 0.52 | 1310 | 1479 | Z75-880-F-1479 | 770 | 897 | 984 |
| 16.15 | 2.80 | 0.56 | 1410 | 1581 | Z75-880-F-1581 | 834 | 971 | 1066 |
| 17.20 | 3.00 | 0.60 | 1510 | 1684 | Z75-880-F-1684 | 901 | 1050 | 1152 |
| 18.25 | 3.21 | 0.64 | 1615 | 1786 | Z75-880-F-1786 | 962 | 1121 | 1230 |
| 19.29 | 3.41 | 0.68 | 1715 | 1888 | Z75-880-F-1888 | 1026 | 1196 | 1312 |
| 20.33 | 3.61 | 0.72 | 1815 | 1990 | Z75-880-F-1990 | 1094 | 1274 | 1398 |
| 21.37 | 3.82 | 0.76 | 1920 | 2092 | Z75-880-F-2092 | 1161 | 1353 | 1485 |
| 22.42 | 4.03 | 0.81 | 2025 | 2195 | Z75-880-F-2195 | 1228 | 1431 | 1571 |
| 23.47 | 4.23 | 0.85 | 2125 | 2297 | Z75-880-F-2297 | 1292 | 1506 | 1653 |
| 24.52 | 4.41 | 0.88 | 2220 | 2400 | Z75-880-F-2400 | 1353 | 1577 | 1731 |
| 25.56 | 4.62 | 0.93 | 2325 | 2502 | Z75-880-F-2502 | 1421 | 1655 | 1817 |
| 27.65 | 5.03 | 1.01 | 2530 | 2706 | Z75-880-F-2706 | 1552 | 1808 | 1985 |
| 28.70 | 5.23 | 1.05 | 2630 | 2809 | Z75-880-F-2809 | 1619 | 1887 | 2071 |
| 29.74 | 5.45 | 1.09 | 2740 | 2911 | Z75-880-F-2911 | 1680 | 1958 | 2149 |

Z75 1030-F



Model Code (example)



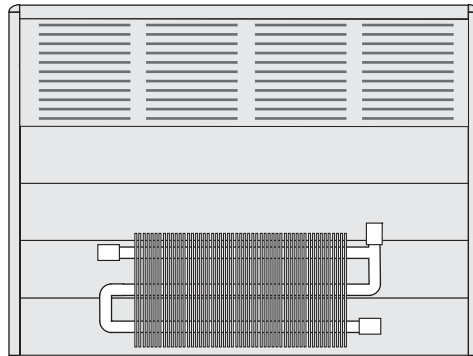
Technical Data

| Case Mass kg | Emitter Mass (dry) kg | Volume V litres | Emitter Length mm | Case Length mm | Model | Output BS EN442 $\Delta T=50K$ Watts | Output $\Delta T=56K$ Watts | Output $T=60K$ Watts |
|--------------|-----------------------|-----------------|-------------------|----------------|------------------------|--------------------------------------|-----------------------------|----------------------|
| 7.94 | 0.97 | 0.20 | 490 | 661 | Z75-1030-F-661 | 264 | 307 | 336 |
| 9.17 | 1.19 | 0.24 | 600 | 763 | Z75-1030-F-763 | 336 | 391 | 428 |
| 10.39 | 1.39 | 0.28 | 700 | 865 | Z75-1030-F-865 | 405 | 470 | 515 |
| 11.63 | 1.60 | 0.32 | 805 | 968 | Z75-1030-F-968 | 477 | 554 | 607 |
| 12.86 | 1.79 | 0.36 | 900 | 1070 | Z75-1030-F-1070 | 546 | 634 | 694 |
| 14.08 | 2.01 | 0.40 | 1010 | 1172 | Z75-1030-F-1172 | 618 | 717 | 786 |
| 15.31 | 2.21 | 0.44 | 1110 | 1274 | Z75-1030-F-1274 | 683 | 793 | 869 |
| 16.55 | 2.42 | 0.48 | 1215 | 1377 | Z75-1030-F-1377 | 755 | 877 | 960 |
| 17.77 | 2.60 | 0.52 | 1310 | 1479 | Z75-1030-F-1479 | 824 | 957 | 1048 |
| 19.00 | 2.80 | 0.56 | 1410 | 1581 | Z75-1030-F-1581 | 892 | 1036 | 1135 |
| 20.23 | 3.00 | 0.60 | 1510 | 1684 | Z75-1030-F-1684 | 964 | 1120 | 1227 |
| 21.46 | 3.21 | 0.64 | 1615 | 1786 | Z75-1030-F-1786 | 1030 | 1196 | 1310 |
| 22.69 | 3.41 | 0.68 | 1715 | 1888 | Z75-1030-F-1888 | 1098 | 1275 | 1397 |
| 23.91 | 3.61 | 0.72 | 1815 | 1990 | Z75-1030-F-1990 | 1170 | 1359 | 1489 |
| 25.14 | 3.82 | 0.76 | 1920 | 2092 | Z75-1030-F-2092 | 1242 | 1443 | 1580 |
| 26.37 | 4.03 | 0.81 | 2025 | 2195 | Z75-1030-F-2195 | 1314 | 1526 | 1672 |
| 27.60 | 4.23 | 0.85 | 2125 | 2297 | Z75-1030-F-2297 | 1383 | 1606 | 1759 |
| 28.84 | 4.41 | 0.88 | 2220 | 2400 | Z75-1030-F-2400 | 1448 | 1682 | 1842 |
| 30.06 | 4.62 | 0.93 | 2325 | 2502 | Z75-1030-F-2502 | 1520 | 1766 | 1934 |
| 32.51 | 5.03 | 1.01 | 2530 | 2706 | Z75-1030-F-2706 | 1661 | 1929 | 2113 |
| 33.75 | 5.23 | 1.05 | 2630 | 2809 | Z75-1030-F-2809 | 1733 | 2013 | 2205 |
| 34.98 | 5.45 | 1.09 | 2740 | 2911 | Z75-1030-F-2911 | 1798 | 2088 | 2288 |

Valve Kits

| Description | Configuration and Code | Kit Contents | Notes |
|--------------------------------------|------------------------|--|---|
| Manual, Enclosed Wheelhead Valve | | <p>½"angle pattern manual body</p> <p>Manual Head</p> <p>½"angle pattern lockshield</p> <p>Nuts and olives</p> | <p><i>Suitable for all models</i></p> |
| Enclosed TRV with Remote Sensor | | <p>½"angle pattern TRV body</p> <p>Remote sensor TRV</p> <p>½"angle pattern lockshield</p> <p>Nuts and olives</p> | <p><i>Suitable for all models</i></p> |
| Large, Robust Remote Adjuster TRV | | <p>½"angle pattern TRV body</p> <p>Remote Transmitter TRV Head (robust or standard)</p> <p>½"angle pattern lockshield</p> <p>Nuts and olives</p> | <p><i>Suitable for all models</i></p> <p><i>Side panel drilled to suit at factory</i></p> <p><i>Handing to be specified</i></p> |
| Direct Acting TRV Thru' Side of Case | | <p>½"straight pattern TRV body</p> <p>TRV Head (robust or standard)</p> <p>½"angle pattern lockshield</p> <p>Nuts and olives</p> | <p><i>Suitable for all models</i></p> <p><i>Side panels punched to suit at factory</i></p> <p><i>Handings to be specified</i></p> |

Standard Connections



Emitter can be fitted for flow in either direction.

All emitters are supplied complete with 1/8" bsp air vents.

Configurations suitable for single pipe heating systems are available for all styles and sizes on request.

Correction Factors

Outputs are shown at $\Delta T=50, 56$ and $60K$.

For other ΔT values, a correction factor must be used: this is a factor to convert the output from $\Delta T=50K$ to the design ΔT .

e.g. For model Z75-440-T-1070 $\Delta T=50K = 479W$. For $\Delta T=58K$, correction factor (from table below) = 1.224, so corrected value = $479 \times 1.224 = 586W @ \Delta T=58K$.

Correction Factors for $\Delta T=30 - 50K$

| Model | n | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 | 50 |
|-------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Z75-440-T | 1.36 | 0.498 | 0.544 | 0.591 | 0.639 | 0.688 | 0.737 | 0.788 | 0.840 | 0.892 | 0.945 | 1.000 |
| Z75-590-T | 1.34 | 0.504 | 0.549 | 0.596 | 0.643 | 0.692 | 0.741 | 0.791 | 0.842 | 0.894 | 0.946 | 1.000 |
| Z75-740-T | 1.32 | 0.509 | 0.554 | 0.601 | 0.648 | 0.696 | 0.744 | 0.794 | 0.844 | 0.895 | 0.947 | 1.000 |
| Z75-890-T | 1.30 | 0.515 | 0.560 | 0.606 | 0.652 | 0.700 | 0.748 | 0.797 | 0.847 | 0.897 | 0.948 | 1.000 |
| Z75-580-F | 1.41 | 0.487 | 0.533 | 0.581 | 0.630 | 0.679 | 0.730 | 0.782 | 0.835 | 0.889 | 0.944 | 1.000 |
| Z75-730-F | 1.38 | 0.494 | 0.540 | 0.587 | 0.636 | 0.685 | 0.735 | 0.786 | 0.838 | 0.891 | 0.945 | 1.000 |
| Z75-880-F | 1.35 | 0.502 | 0.547 | 0.594 | 0.642 | 0.690 | 0.740 | 0.790 | 0.841 | 0.893 | 0.946 | 1.000 |
| Z75-1030-F | 1.32 | 0.509 | 0.554 | 0.601 | 0.648 | 0.696 | 0.744 | 0.794 | 0.844 | 0.895 | 0.947 | 1.000 |

Correction Factors for $\Delta T=50 - 70K$

| Model | n | 50 | 52 | 54 | 56 | 58 | 60 | 62 | 64 | 66 | 68 | 70 |
|-------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Z75-440-T | 1.36 | 1.000 | 1.054 | 1.110 | 1.166 | 1.223 | 1.281 | 1.340 | 1.399 | 1.459 | 1.520 | 1.581 |
| Z75-590-T | 1.34 | 1.000 | 1.053 | 1.108 | 1.164 | 1.220 | 1.276 | 1.334 | 1.392 | 1.450 | 1.510 | 1.570 |
| Z75-740-T | 1.32 | 1.000 | 1.053 | 1.106 | 1.161 | 1.216 | 1.271 | 1.328 | 1.385 | 1.442 | 1.500 | 1.558 |
| Z75-890-T | 1.30 | 1.000 | 1.052 | 1.105 | 1.158 | 1.212 | 1.267 | 1.322 | 1.377 | 1.433 | 1.490 | 1.547 |
| Z75-580-F | 1.41 | 1.000 | 1.056 | 1.114 | 1.172 | 1.232 | 1.292 | 1.353 | 1.414 | 1.477 | 1.540 | 1.604 |
| Z75-730-F | 1.38 | 1.000 | 1.055 | 1.111 | 1.168 | 1.226 | 1.285 | 1.344 | 1.405 | 1.465 | 1.527 | 1.589 |
| Z75-880-F | 1.35 | 1.000 | 1.054 | 1.109 | 1.165 | 1.221 | 1.278 | 1.336 | 1.395 | 1.454 | 1.513 | 1.574 |
| Z75-1030-F | 1.32 | 1.000 | 1.053 | 1.106 | 1.161 | 1.216 | 1.272 | 1.328 | 1.385 | 1.442 | 1.500 | 1.559 |

Where the design conditions fall outside of the tabulated values, the correction factor is easily calculated using the following formula:

$$\text{Correction factor} = (\text{Design } \Delta T / \text{Reference } \Delta T)^n \text{ where: } n = \text{exponential}$$

$$\text{Reference } \Delta T = 50K$$

e.g. Correction factor for any Z75-440T at design condition $\Delta T = 75K$:

$$cf = (75/50)^{1.36} = 1.736$$

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